Annual Performance Indicators Report 1995/96

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Health Information and Evaluation

November 1, 1996

Glossary of Health-Care Terms Used

AIDS: Acquired Immunodeficiency Syndrome

ALOS: Average length of stay. Total patient days for a group of patients/total number of separations for that group of patients during a given time period.

BEDS: A bed maintained by the hospital for inpatient use. In this case, paediatric or adult bed including intensive or special care unit beds but excluding bassinets, rehabilitation, and detoxification beds.

CABG: Coronary Artery Bypass Graft.

CHOLE'S: Cholecystectomy. Two techniques are used - laparoscopic and open. The patient's length of stay is usually reduced with a laparoscopic approach but the cost of the operation is greater than the traditional or 'open' approach.

CIHI: Canadian Institute for Health Information.

CMG: Case mix groups. CMGs provide a means to group acute care inpatients with similar clinical and resource utilization characteristics.

COMORBIDITY: A diagnosis describing another important condition in addition to the MRDx which usually has a significant influence on the patient's length of stay and/or significantly influences the management/treatment (resource use) of the patient while in hospital.

COMPLIANCE RATE: (Tobacco Control) The percent of retailers complying with the requirements of the Tobacco Control Act. (Number of inspections - number of warnings)/number of inspections x 100.

DAY SURGERY: Ambulatory surgery, outpatient surgery. Surgery performed on an outpatient with arrival and departure on the same day.

G.P.'s: General practitioner

HIV: Human Immunodeficiency Virus

MRDx: Most responsible diagnosis; formerly termed 'primary diagnosis'.

OPD: Out Patient Department.

PATIENT DAY: A day of inpatient care.

PLASTICS: Plastic surgery.

SDAS: Same day admission surgery. Usually used to refer to the percentage of (inpatient) elective surgeries performed on the day of admission. Sometimes confused with SDS.

SDS: Same day surgery. Surgery performed on an outpatient with arrival and departure on the same day.

TIA: Transient ischaemic attack

PERFORMANCE INDICATORS

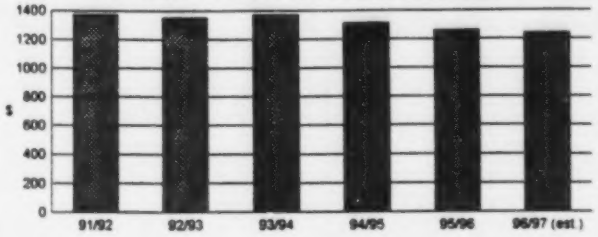
ANNUAL 1995/96

1

NOVA SCOTIA HEALTH EXPENDITURES

Expenditures Per Capita

1991/92 to 1995/96; 1996/97 estimate



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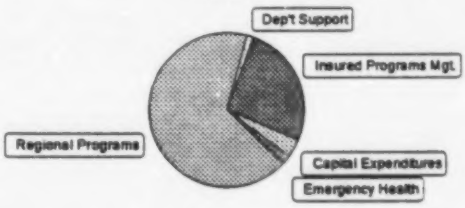
HEALTH EXPENDITURES

Net Expenditures by Program

1995/96



3

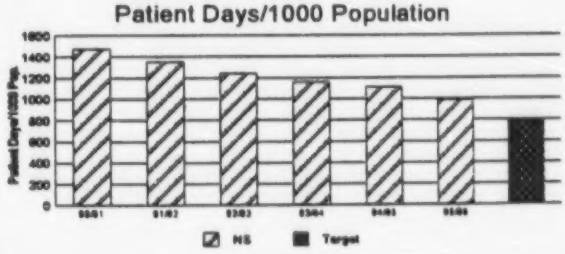
NOVA SCOTIA ACUTE CARE PROGRAMS

The following slides focus on:
Utilization Rates
Surgical Procedure Rates

4

ACUTE CARE PROGRAMS

Patient Days/1000 Population



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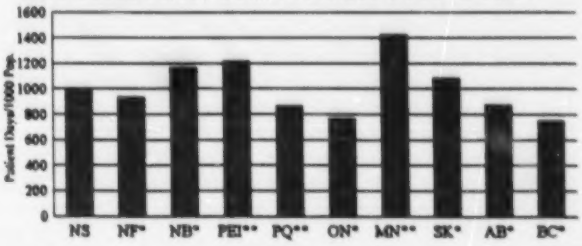
PROVINCIAL COMPARISONS

Patient Days/1000 Population

Nova Scotia 95/96, Other Provinces 94/95* & 93/94**



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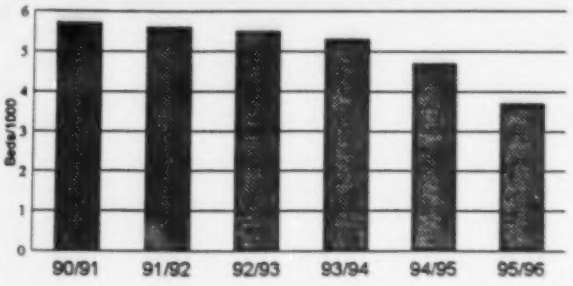
ACUTE CARE PROGRAMS

Number of Beds/1000 Population



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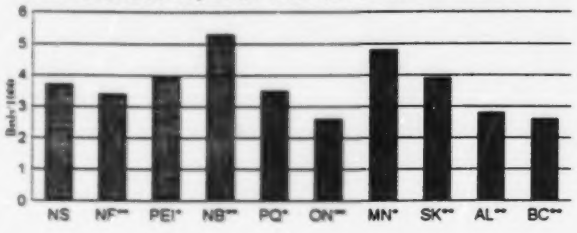
PROVINCIAL COMPARISONS

Number of Beds/1000 Population

Nova Scotia 95/96, Other Provinces 93/94* and 94/95**



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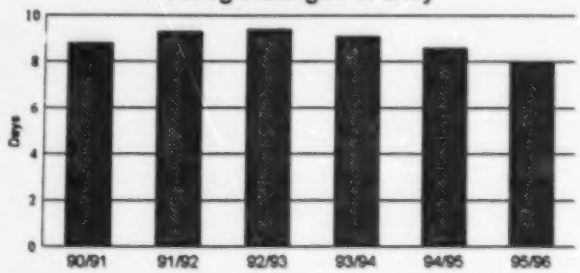
ACUTE CARE PROGRAMS

Average Length of Stay



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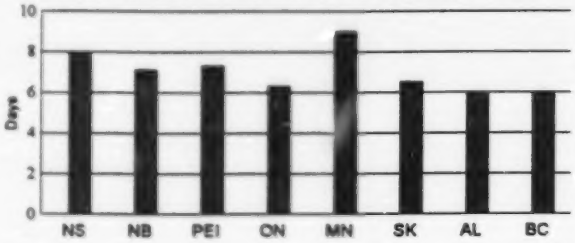
PROVINCIAL COMPARISONS

Average Length of Stay

Nova Scotia 95/96, Other Provinces 94/95



10

LEADING CASE MIX GROUPS 1995/96

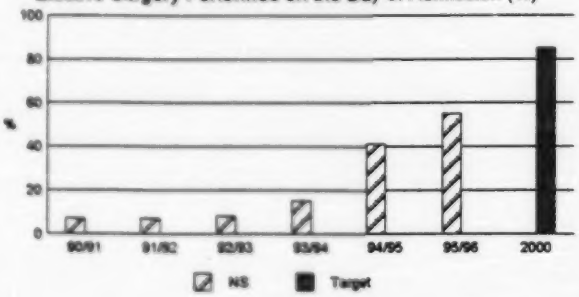
CMG's by Total Number of Separations

- CMG 611 Vaginal Delivery
- CMG 294 Esophagitis, Gastritis, & Miscellaneous Digestive Disease <70
- CMG 213 Cardiac Catheterization with Congestive Heart Failure
- CMG 580 Major Gynecological Procedure, Uterus without malignancy, age < 70

11

ACUTE CARE PROGRAMS

Elective Surgery Performed on the Day of Admission (%)



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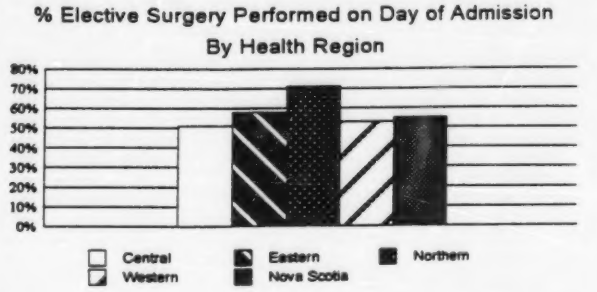
ACUTE CARE PROGRAMS 1995/96



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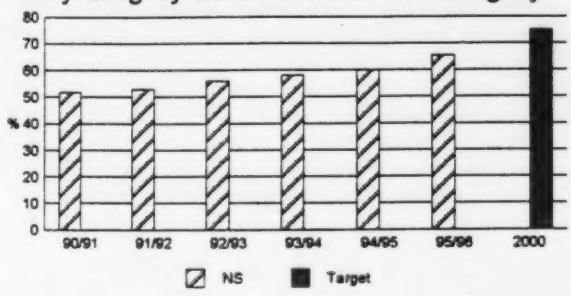
ACUTE CARE PROGRAMS



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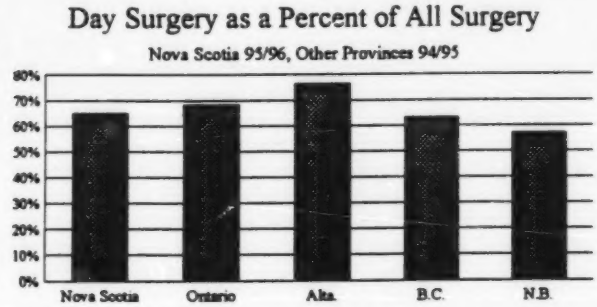
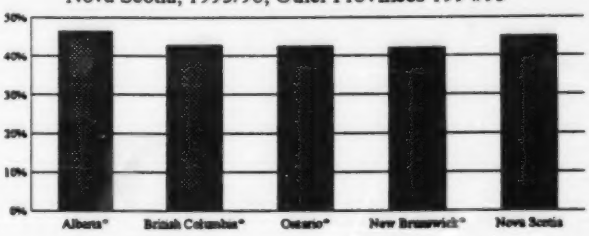
PROVINCIAL COMPARISONS



15

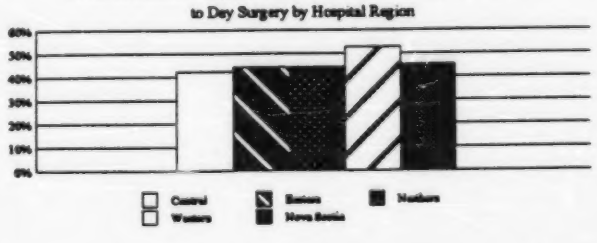
PROVINCIAL COMPARISONS

% Of Inpatient Surgery that Could Potentially be Moved to Day Surgery



16

REGIONAL COMPARISON INPATIENT SURGERY 1995/96



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OPERATIVE PROCEDURES

The following slides focus on:
Cataracts, Total Hip and Total Knee Replacements, Cholecystectomies, Hernia Repairs, Hysterectomies, CABG's, Cardiac Catheterizations, Coronary Angioplasties, and Carpal Tunnel Releases

18

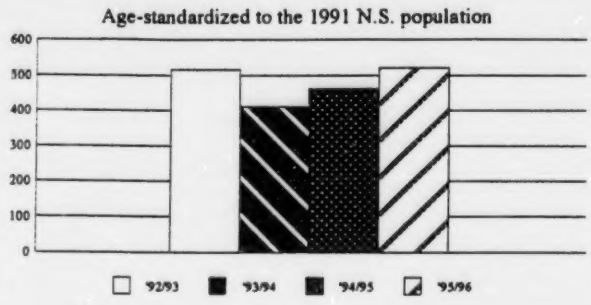
CATARACT EXTRACTIONS

An increasing % of cataract extractions are being done in day surgery.

Regional variations persist.

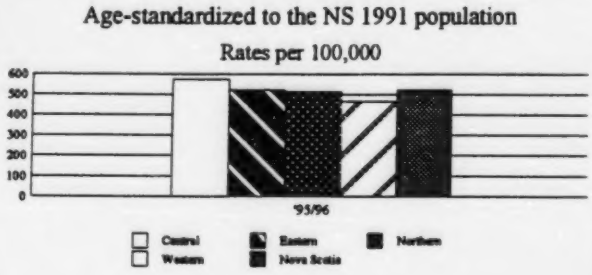
19

CATARACT EXTRACTIONS NOVA SCOTIA 1992/93 TO 1995/96



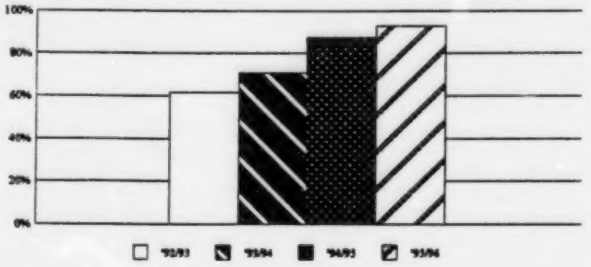
20

CATARACT EXTRACTIONS BY REGION OF RESIDENCE (1995/96)



21

CATARACT EXTRACTIONS % PERFORMED AS DAY SURGERY 1992/93 TO 1995/96



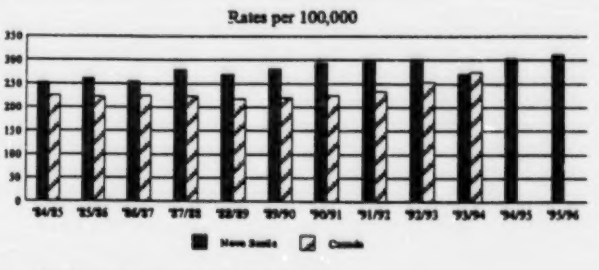
22

CHOLECYSTECTOMIES

Laparoscopic techniques are increasingly employed - reducing the length of stay and, to a limited degree, moving chole's to a day surgery setting.

23

CHOLECYSTECTOMIES 1984/85 TO 1995/96 CANADA & NOVA SCOTIA



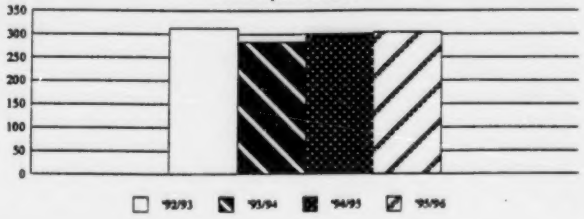
Canadian data is not available for 94/95 & 95/96.

24

CHOLECYSTECTOMIES NOVA SCOTIA 1992/93 TO 1995/96

Age-standardized to the NS 1991 population

Rates per 100,000

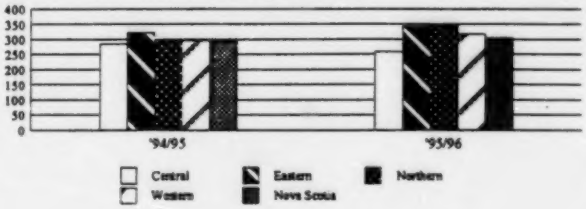


25

CHOLECYSTECTOMIES BY REGION OF RESIDENCE 1994/95 & 1995/96

Age-standardized to the NS 1991 population

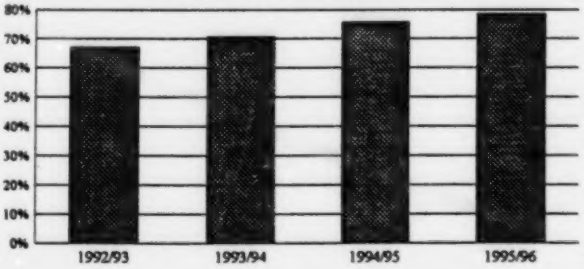
Rates per 100,000



26

LAPAROSCOPIC CHOLECYSTECTOMIES % OF TOTAL CHOLE'S PERFORMED

1992/93 to 1995/96

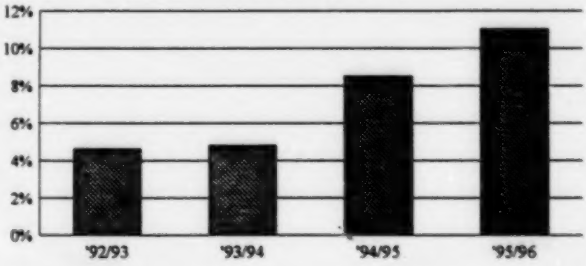


27

LAPAROSCOPIC CHOLE'S

% Performed in Day Surgery

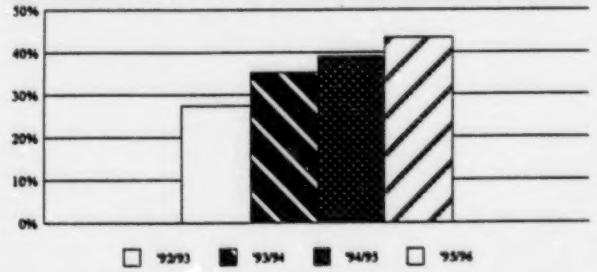
1992/93 to 1995/96



28

INGUINAL HERNIA REPAIRS % DONE AS DAY SURGERY

1992/93 to 1995/96 --- Unilateral & Bilateral Hernia Repairs



29

ORTHOPAEDICS & PLASTICS

The Nova Scotia rate for hip replacements is higher than the national rate.

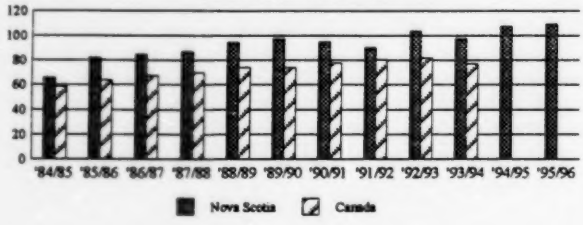
Annual and regional variations in the rates for knee and hip procedures exist and may reflect physician supply.

30

HIP ARTHROPLASTIES CANADA & NOVA SCOTIA

Rates per 100,000

1984/85 to 1995/96

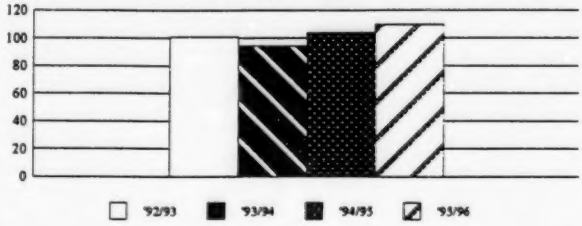


31

HIP ARTHROPLASTIES - N.S. 1992/93 TO 1995/96

Age-standardized to the NS 1991 population

Rates per 100,000

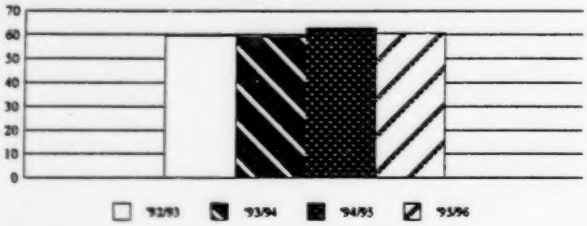


32

TOTAL HIP REPLACEMENTS 1992/93 TO 1995/96

Age-standardized to the 1991 N.S. population

Rates per 100,000

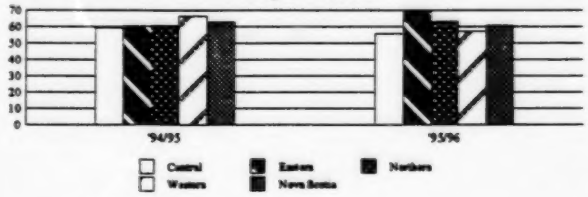


33

TOTAL HIP REPLACEMENTS REGION OF RESIDENCE 1994/95 & 1995/96

Age-standardized to the 1991 NS population

Rates per 100,000



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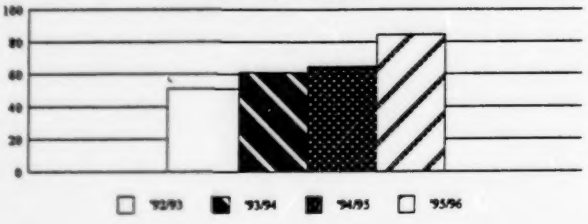
TOTAL KNEE REPLACEMENTS 1992/93 TO 1995/96

Age-standardized to the 1991 N.S. population

Rates per 100,000



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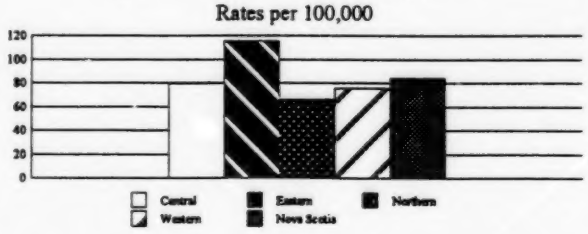
TOTAL KNEE REPLACEMENTS BY REGION OF RESIDENCE 1995/96

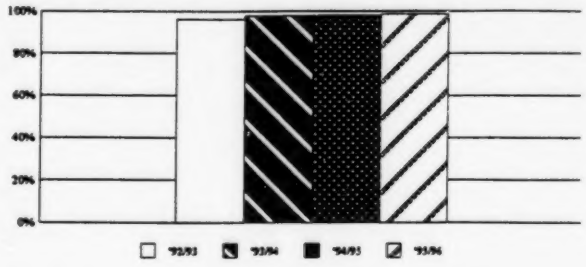
Age-standardized to NS 1991 population

Rates per 100,000



36

CARPAL TUNNEL RELEASE
% Performed as Day Surgery
1992/93 to 1995/96



37

HYSTERECTOMIES

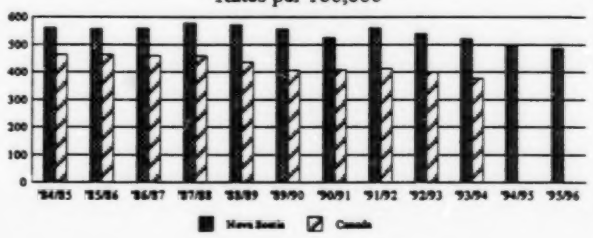
While the N.S. hysterectomy rate has decreased it remains above the national.

Regional variations persist.

38

HYSTERECTOMIES
1984/85 - 1995/96
CANADA & NOVA SCOTIA

Rates per 100,000



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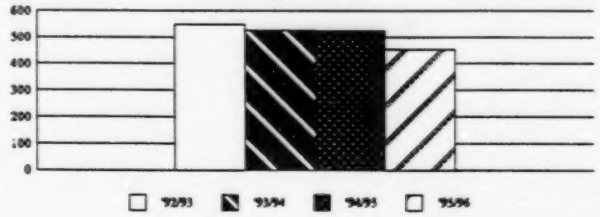
HYSTERECTOMIES
1992/93 TO 1995/96
NOVA SCOTIA

Age-standardized to the 1991 Nova Scotia population

Rates per 100,000



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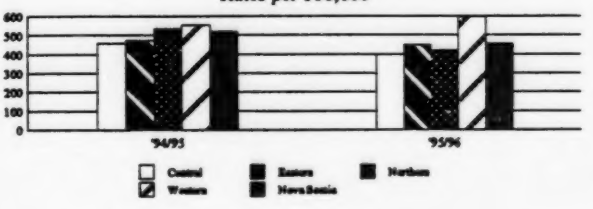
HYSTERECTOMIES
BY REGION OF RESIDENCE
1994/95 & 1995/96

Age-standardized to the NS 1991 population

Rates per 100,000



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CARDIAC PROCEDURES

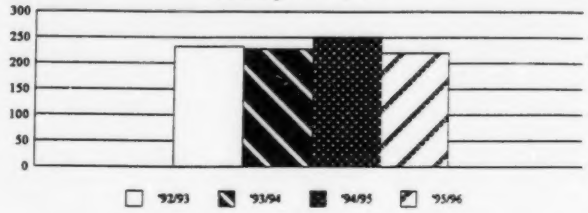
Differences in regional rates persist after controlling for age. The higher rates for the Central region may be, to some degree, a result of the availability of day surgery cardiac catheterizations and angioplasties to patients living within a specified radius of Halifax.

42

CARDIAC CATHETERIZATIONS 1992/93 TO 1995/96 NOVA SCOTIA

Age-Standardized to the 1991 Nova Scotia population

Rates per 100,000

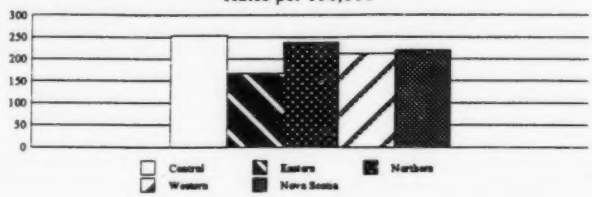


43

CARDIAC CATHETERIZATIONS BY REGION OF RESIDENCE 1995/96

Age-standardized to the 1991 Nova Scotia population

Rates per 100,000

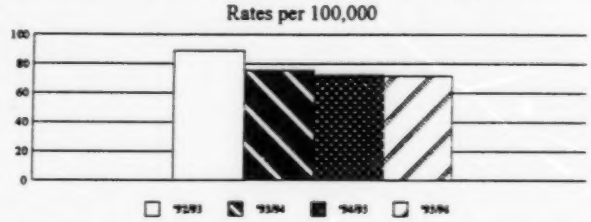


44

CORONARY ANGIOPLASTIES NOVA SCOTIA 1992/93 TO 1995/96

Age-standardized to the Nova Scotia 1991 population

Rates per 100,000



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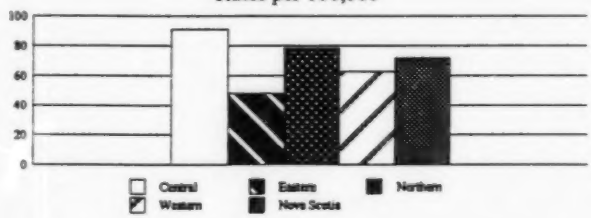
CORONARY ANGIOPLASTIES BY REGION OF RESIDENCE 1995/96

Age-standardized to Nova Scotia 1991 population

Rates per 100,000

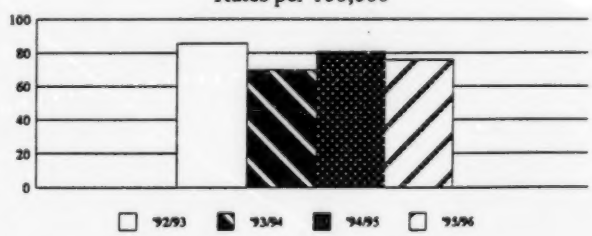


46

C.A.B.G.'s Nova Scotia 1992/3 TO 1995/96

Age-standardized to the 1991 NS population

Rates per 100,000



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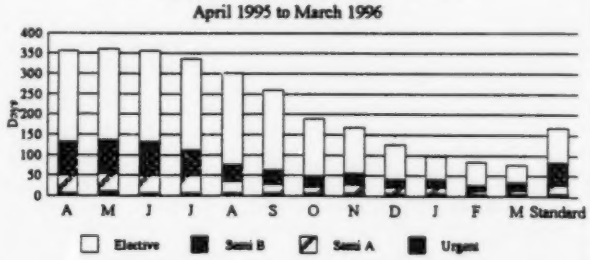
Cardiovascular Surgery Wait Times

Wait Times by Category and Month

April 1995 to March 1996



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CORONARY ARTERY BYPASS GRAFT REGION OF RESIDENCE '95/96

Age-standardized to the 1991Nova Scotia population

Rates per 100,000

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EFFICIENCY

At the beginning of 1995/96 hospitals collected information on readmissions. This first year of data may provide a baseline for trending. Re-admissions within one week or one month may point to premature discharge.

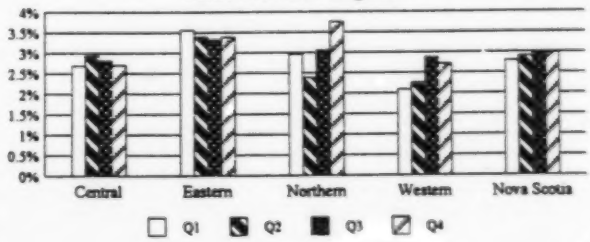
Average lengths of stay for case mix groups allows for comparisons of similar patients with other provinces. While decreasing yearly, Nova Scotia's ALOS remains high compared to other provinces.

50

RE-ADMISSIONS TO SAME HOSPITAL WITHIN ONE WEEK OF DISCHARGE 1995/96

% Re-admissions within one week of discharge

Same or related diagnosis



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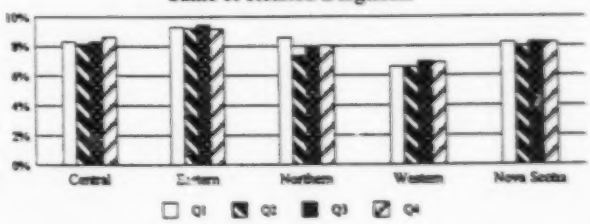
RE-ADMISSIONS TO SAME HOSPTAL WITHIN ONE MONTH OF DISCHARGE 1995/96

% Readmissions within One Month of Discharge

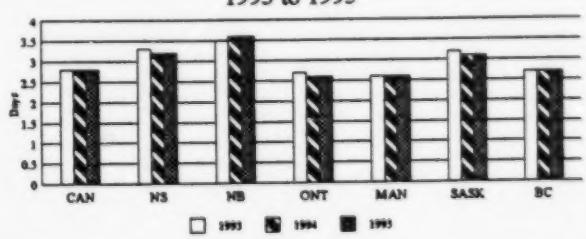
Same or Related Diagnosis



52

AVERAGE LENGTH OF STAY -- CMG 146 BRONCHITIS/ASTHMA < 70 YEARS; NO COMORBIDITIES

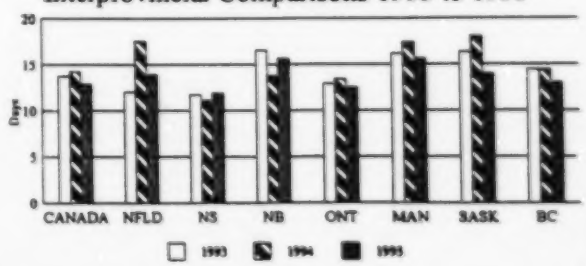
1993 to 1995



53

AVERAGE LENGTH OF STAY CMG 390 FRACTURE OF HIP AND PELVIS

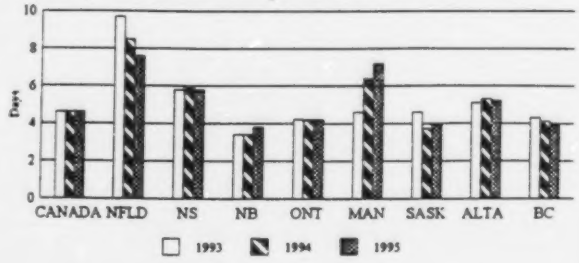
Interprovincial Comparisons 1993 to 1995



54

AVERAGE LENGTH OF STAY -- CMG 222 CORONARY ANGIOPLASTY

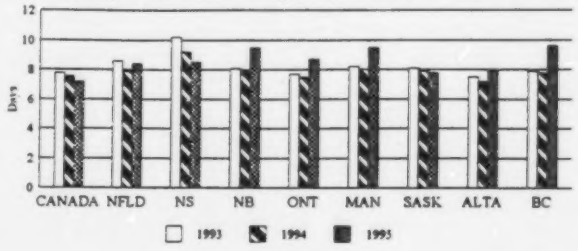
Interprovincial Comparisons - 1993 to 1995



55

AVERAGE LENGTH OF STAY CMG 136--Chronic Obstructive Pulmonary Disease

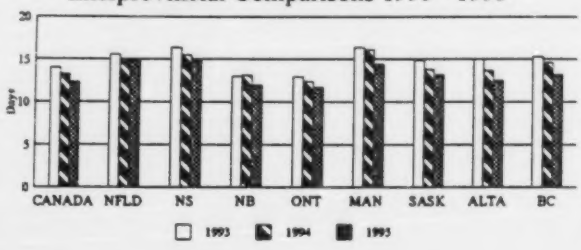
Interprovincial Comparisons 1993 - 1995



56

AVERAGE LENGTH OF STAY CMG 013 CEREBROVASCULAR DISORDERS EXCLUDING TIA's

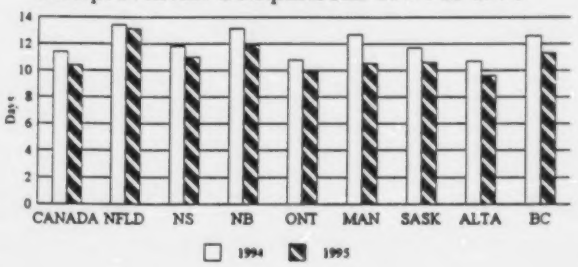
Interprovincial Comparisons 1993 - 1995



57

AVERAGE LENGTH OF STAY CMG 354 -- KNEE REPLACEMENT

Interprovincial Comparisons 1994 & 1995



58

MENTAL HEALTH PROGRAMS

Inpatient Treatments - ALOS decreasing, discharges increasing

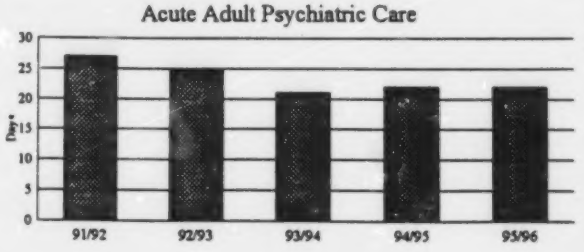
Outpatient Clinics - Number of Clients Increasing

59

NOVA SCOTIA MENTAL HEALTH PROGRAMS

Average Length of Stay

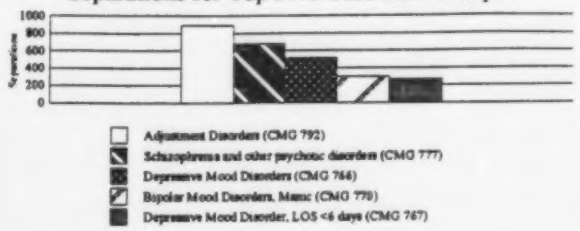
Acute Adult Psychiatric Care



60

MENTAL HEALTH PROGRAMS
FIVE TOP CASE MIX GROUPS
1995/96

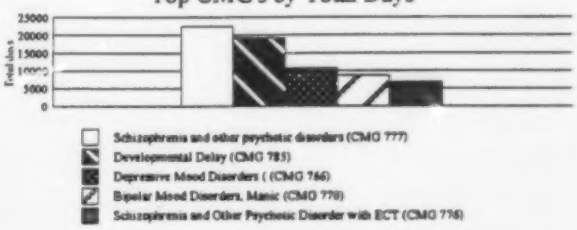
Separations for Top Five Case Mix Groups



61

MENTAL HEALTH PROGRAMS
TOP CMG's BY TOTAL DAYS
1995/96

Top CMG's by Total Days

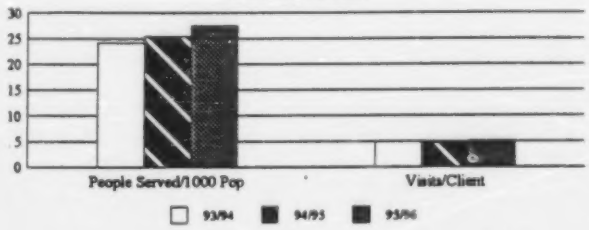


62

NOVA SCOTIA
MENTAL HEALTH PROGRAMS

Ambulatory Care

Service Levels

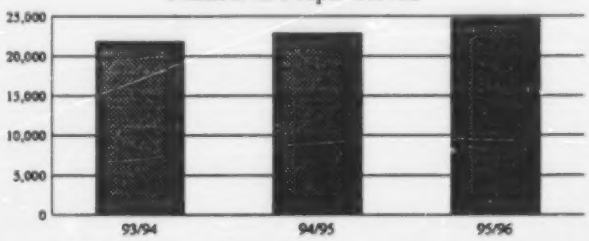


63

NOVA SCOTIA
MENTAL HEALTH PROGRAMS

Ambulatory Care

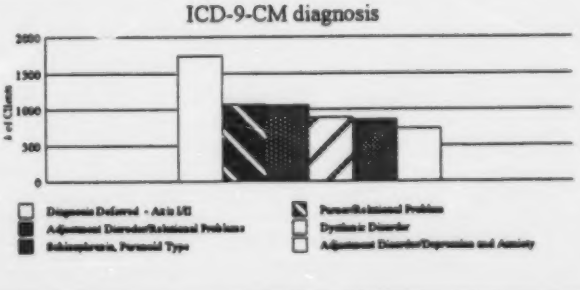
Number of People Served



64

MENTAL HEALTH PROGRAMS
TOP SIX DIAGNOSES
OUTPATIENT CLINICS
1995/96

ICD-9-CM diagnosis



65

NOVA SCOTIA
DRUG DEPENDENCY
PROGRAMS

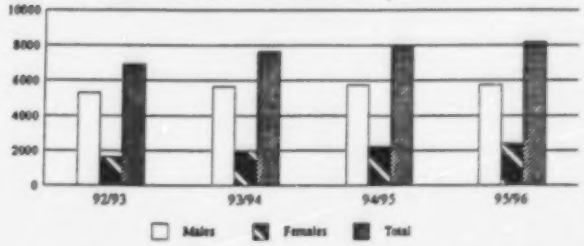
The number of clients served has increased; more women are using the program.

Volume of clients in the Short term treatment programs is also increasing.

66

NOVA SCOTIA DRUG DEPENDENCY PROGRAMS

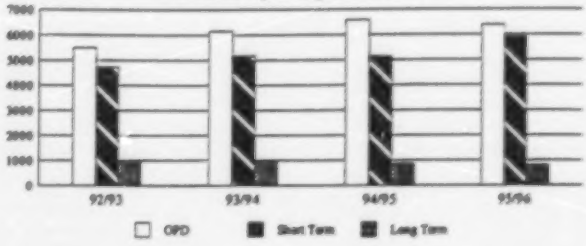
Number of Clients Served by Gender



67

NOVA SCOTIA DRUG DEPENDENCY PROGRAMS

Clients by Program Area



68

NOVA SCOTIA PUBLIC HEALTH PROGRAMS

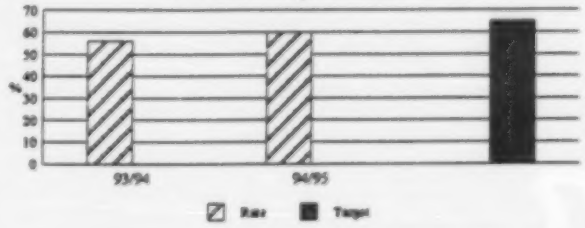
Flu immunization rates, HIV and AIDS, Breast feeding, Chlamydia.

69

NOVA SCOTIA PUBLIC HEALTH PROGRAMS

Flu Immunization Rates (%)

65 Years of Age and Over

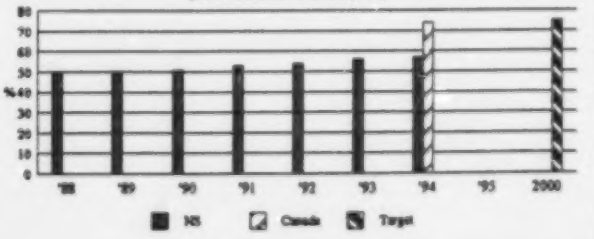


70

NOVA SCOTIA PUBLIC HEALTH PROGRAMS

Breast Feeding Rates (%)

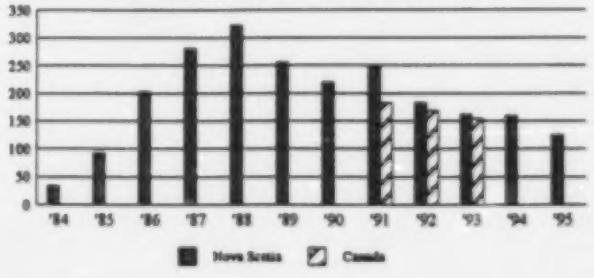
(1995 data available December, 1996)



71

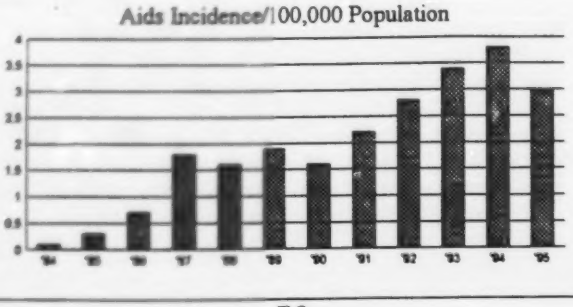
NOVA SCOTIA PUBLIC HEALTH PROGRAMS

Chlamydia Rates/100,000 Population



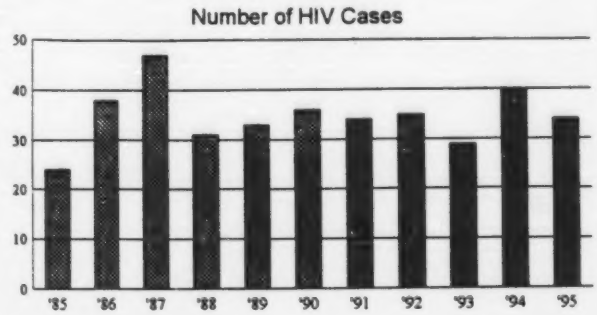
72

NOVA SCOTIA
PUBLIC HEALTH PROGRAMS



73

NOVA SCOTIA
PUBLIC HEALTH PROGRAMS



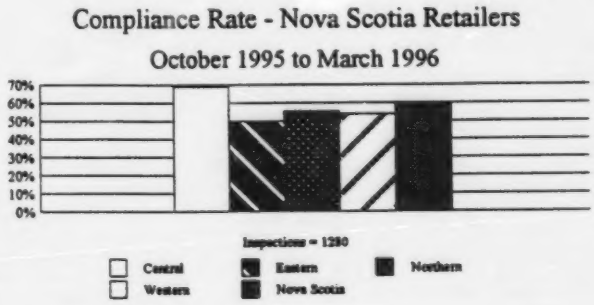
74

HOME CARE
TOBACCO CONTROL

The following slides focus on:
Activity volumes in these two programs

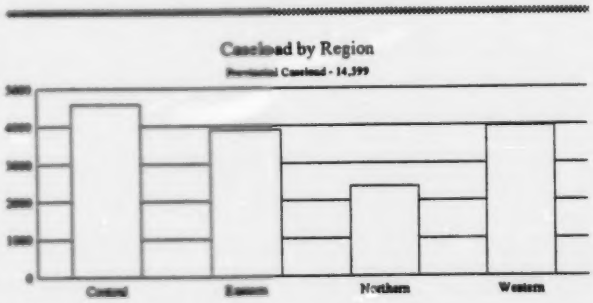
75

Tobacco Control



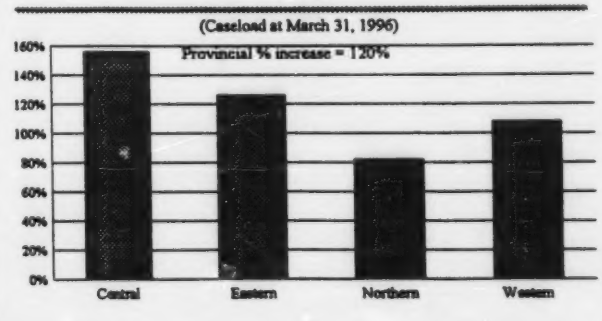
76

Home Care Nova Scotia
Accumulated Annual Caseload
1995/96



77

Home Care Nova Scotia
% Increase in Caseload Since June 1995



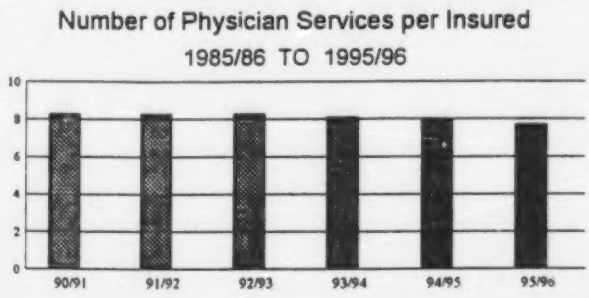
78

PHYSICIAN SERVICES

Additional 1995/96 data will be available from Insured Programs Management late 1996.

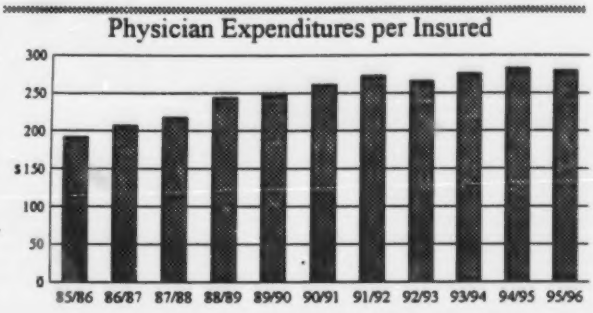
79

NOVA SCOTIA PHYSICIAN SERVICES



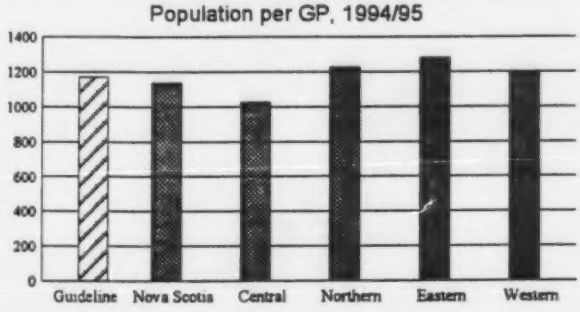
80

NOVA SCOTIA PHYSICIAN SERVICES



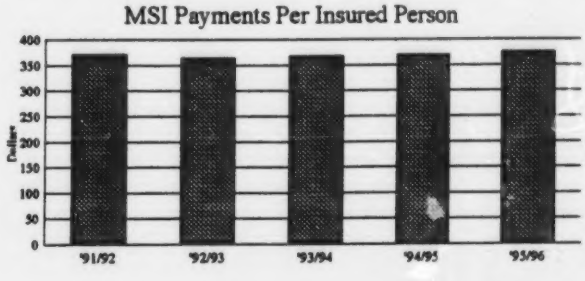
81

NOVA SCOTIA PHYSICIAN SERVICES



82

PHYSICIAN SERVICES

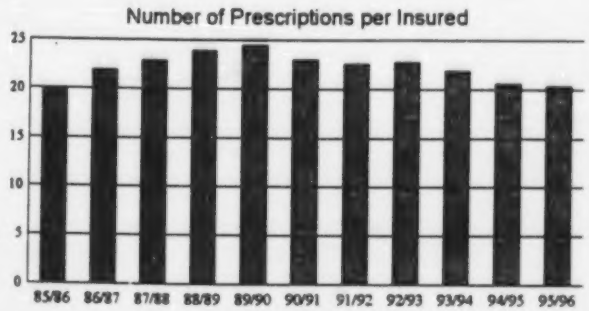


83

PHARMACARE

84

NOVA SCOTIA PHARMACARE



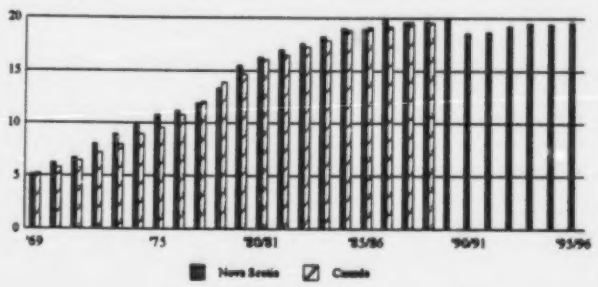
85

Women's Health

Caesarean Sections
Breast Cancer
Cervical Cancer
(Mortality statistics for 1995 are not available.)

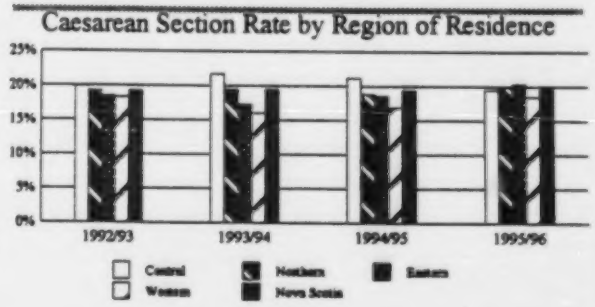
86

CAESAREAN SECTIONS PER 100 DELIVERIES Canada and Nova Scotia



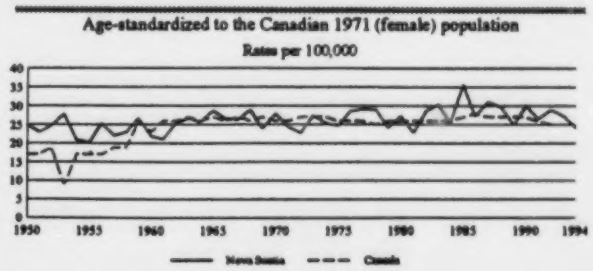
87

CAESAREAN SECTION RATE 1992/93 TO 1995/96



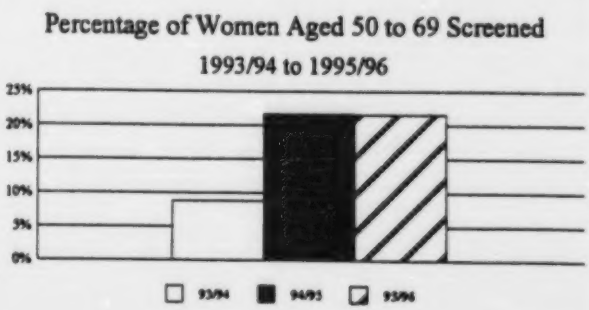
88

BREAST CANCER MORTALITY RATES Nova Scotia & Canada -- 1950 - 1994



89

NOVA SCOTIA BREAST SCREENING PROGRAM

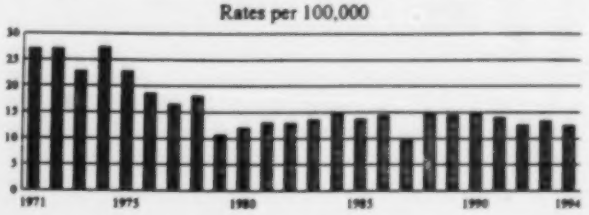


90

CERVICAL CANCER INCIDENCE RATES --NOVA SCOTIA 1971 -1994

Age-standardized to the 1991 Cdn (female) population

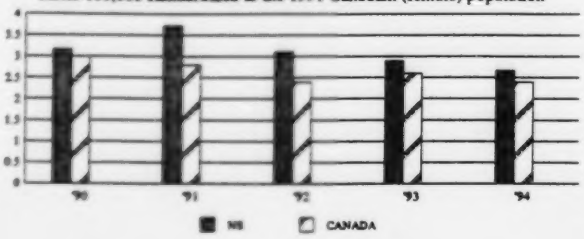
Rates per 100,000



91

CERVICAL CANCER MORTALITY RATES NOVA SCOTIA & CANADA 1990- 94

Rates/100,000 standardized to the 1991 Canadian (female) population

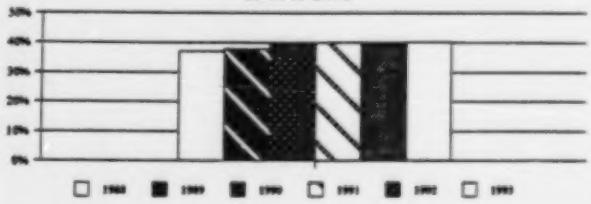


92

NOVA SCOTIA GYNECOLOGICAL CANCER SCREENING PROGRAM

Percentage of Women (15-90 years) Screened

1988 to 1993

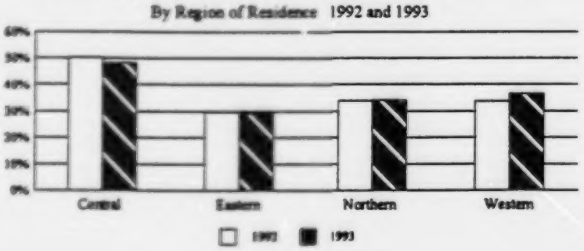


93

NOVA SCOTIA GYNAECOLOGICAL CANCER SCREENING PROGRAM

Percentage of Women 15 years of age and over Screened

By Region of Residence 1992 and 1993



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